



1

SEQUENCE LISTING

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JAN 22 2002

TECH CENTER 1600/2900

<110> HOLM, ARNE
LARSEN, BJARNE

<120> IMPROVED SOLID-PHASE PEPTIDE SYNTHESIS AND AGENT FOR
USE IN SUCH SYNTHESIS

<130> 55503(45487)

<140> 09/551,336

<141> 2000-04-18

<150> 09/254,523

<151> 1999-03-09

<150> PCT/DK97/00375

<151> 1997-09-09

<150> DK 0971/96

<151> 1996-09-09

<160> 43

<170> PatentIn Ver. 2.1

<210> 1

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic
peptide

<220>

<223> this peptide may also encompass a deletion
peptide of 2-9 Ala

<400> 1

Ala Ala Ala Ala Ala Ala Ala Ala Ala Lys

1

5

10

<210> 2

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic
peptide

<400> 2

Ala Ala Ala Ala Ala Ala

1

5

<210> 3
 <211> 11
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: synthetic
 peptide

<400> 3
 Ala Ala Ala Ala Ala Ala Ala Ala Ala Lys
 1 5 10

<210> 4
 <211> 13
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: synthetic
 peptide

<400> 4
 Ala Ala Ala Ala Ala Ala Ala Ala Ala Lys Lys Lys
 1 5 10

<210> 5
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: synthetic
 peptide

<400> 5
 Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala
 1 5 10 15

Ala Ala Ala Ala Lys Lys Lys
 20

<210> 6
 <211> 16
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: synthetic
 peptide

<400> 6
 Ala Ala Ala Ala Ala Ala Ala Ala Ala Lys Lys Lys Lys Lys Lys
 1 5 10 15

<210> 7
 <211> 26
 <212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic peptide

<400> 7

Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala
 1 5 10 15

Ala Ala Ala Ala Lys Lys Lys Lys Lys Lys
 20 25

<210> 8
 <211> 10
 <212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: acyl carrier protein (65-74)

<400> 8

Val Gln Ala Ala Ile Asp Tyr Ile Asn Gly
 1 5 10

<210> 9
 <211> 16
 <212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: acyl carrier protein (65-74) - (Lys) 6

<400> 9

Val Gln Ala Ala Ile Asp Tyr Ile Asn Gly Lys Lys Lys Lys Lys Lys
 1 5 10 15

<210> 10
 <211> 17
 <212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic peptide

<220>

<221> MOD_RES

<222> (11)
 <223> Lys (tBoc) -HMPA

<220>
 <221> MOD_RES
 <222> (12)..(17)
 <223> Lys (tBoc)

<400> 10
 Ala Ala Ala Ala Ala Ala Ala Ala Ala Lys Lys Lys Lys Lys Lys
 1 5 10 15

Lys

<210> 11
 <211> 17
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: synthetic
 peptide

<220>
 <221> MOD_RES
 <222> (11)
 <223> Lys-MMa

<220>
 <221> MOD_RES
 <222> (12)..(17)
 <223> Lys (tBoc)

<400> 11
 Ala Ala Ala Ala Ala Ala Ala Ala Ala Lys Lys Lys Lys Lys Lys
 1 5 10 15

Lys

<210> 12
 <211> 26
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: synthetic
 peptide

<220>
 <223> this peptide may also encompass a deletion
 peptide of 10 Ala

<220>
 <223> this peptide may also encompass a deletion
 peptide of 1 or 3 Lys

<400> 12

Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala
1 5 10 15

Ala Ala Ala Ala Lys Lys Lys Lys Lys Lys
20 25

<210> 13

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic peptide

<220>

<223> this peptide may also encompass a deletion peptide of 10 Ala

<400> 13

Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala
1 5 10 15

Ala Ala Ala Ala Lys Lys Lys Lys Lys Lys
20 25

<210> 14

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic peptide

<400> 14

Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala
1 5 10 15

Ala Ala Ala Ala
20

<210> 15

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic peptide

<400> 15

Lys Lys Lys Lys Lys Lys
1 5

<210> 16
 <211> 6
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: synthetic
 peptide

<220>
 <221> MOD_RES
 <222> (1)..(6)
 <223> Glu(tBu)

<400> 16
 Glu Glu Glu Glu Glu
 1 5

<210> 17
 <211> 6
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: synthetic
 peptide

<220>
 <221> MOD_RES
 <222> (1)..(2)
 <223> Glu(tBu)Lys(tBoc)

<220>
 <221> MOD_RES
 <222> (3)..(4)
 <223> Glu(tBu)Lys(tBoc)

<220>
 <221> MOD_RES
 <222> (5)..(6)
 <223> Glu(tBu)Lys(tBoc)

<400> 17
 Glu Lys Glu Lys Glu Lys
 1 5

<210> 18
 <211> 10
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic peptide

<400> 18

Val Asn Val Asn Val Gln Val Gln Val Asp
1 5 10

<210> 19

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic peptide

<400> 19

Val Asn Val Asn Val Gln Val Gln Val Asp Lys Lys Lys Lys Lys Lys
1 5 10 15

<210> 20

<211> 5

<212> PRT

<213> Homo sapiens

<220>

<223> Enkephalin

<400> 20

Tyr Gly Gly Phe Leu
1 5

<210> 21

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic peptide

<220>

<221> MOD_RES

<222> (1)..(6)

<223> Lys(tBoc)

<400> 21

Lys Lys Lys Lys Lys Lys
1 5

<210> 22

<211> 6

<212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: synthetic peptide

<220>
 <221> MOD_RES
 <222> (1)..(6)
 <223> Lys(tBoc)

<400> 22
 Lys Lys Lys Lys Lys Lys
 1 5

<210> 23
 <211> 6
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: synthetic peptide

<400> 23
 Glu Glu Glu Glu Glu Glu
 1 5

<210> 24
 <211> 17
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: synthetic peptide

<220>
 <221> MOD_RES
 <222> (1)..(6)
 <223> Lys(tBoc)

<220>
 <221> MOD_RES
 <222> (7)
 <223> HMPA-Lys(tBoc)

<400> 24
 Lys Lys Lys Lys Lys Lys Lys Ala Ala Ala Ala Ala Ala Ala Ala
 1 5 10 15

Ala

<210> 25
 <211> 17
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: synthetic
 peptide

<220>
 <221> MOD_RES
 <222> (1)..(6)
 <223> Lys(tBoc)

<220>
 <221> MOD_RES
 <222> (7)
 <223> MMA-Lys

<400> 25
 Lys Lys Lys Lys Lys Lys Lys Ala Ala Ala Ala Ala Ala Ala Ala Ala
 1 5 10 15

Ala

<210> 26
 <211> 11
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: synthetic
 peptide

<400> 26
 Lys Ala Ala Ala Ala Ala Ala Ala Ala Ala
 1 5 10

<210> 27
 <211> 11
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: synthetic
 peptide

<220>
 <221> MOD_RES
 <222> (1)
 <223> MMA-Lys

<400> 27
 Lys Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala
 1 5 10

<210> 28
 <211> 13
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: synthetic peptide

<220>
 <221> MOD_RES
 <222> (11)..(13)
 <223> Lys(Boc)

<400> 28
 Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Lys Lys Lys
 1 5 10

<210> 29
 <211> 27
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: synthetic peptide

<400> 29
 Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala
 1 5 10 15

Ala Ala Ala Ala Lys Gly Lys Gly Lys Gly Lys
 20 25

<210> 30
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: synthetic peptide

<220>
 <223> this peptide may also encompass a deletion peptide of 16-19 Ala

<400> 30
 Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala
 1 5 10 15

Ala Ala Ala Ala Lys Lys Lys
 20

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<210> 31
<211> 17
<212> PRT
<213> Artificial Sequence
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<220>
<223> Description of Artificial Sequence: synthetic peptide

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<220>
<221> MOD_RES
<222> (11)
<223> Lys (Boc) -OCH2-HMPA

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<220>  
<221> MOD_RES  
<222> (12)..(17)  
<223> Lys(Boc)
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<400> 31
Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Lys Lys Lys Lys Lys Lys
1 5 10 15

Lys

```
<210> 32
<211> 11
<212> PRT
<213> Artificial Sequence
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```
<220>
<223> Description of Artificial Sequence: synthetic
      peptide
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```
<220>
<221> MOD_RES
<222> (11)
<223> Lys(Boc)-OCH-MMa
```

<400> 32
Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Lys
1 5 10

```
<210> 33
<211> 17
<212> PRT
<213> Artificial Sequence
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```
<220>
<223> Description of Artificial Sequence: synthetic
      peptide
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```
<220>
<221> MOD_RES
<222> (11)
<223> Lys(Boc)-OCH-MMa
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<220>
 <221> MOD_RES
 <222> (12)..(17)
 <223> Lys(Boc)

<400> 33
 Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Lys Lys Lys Lys Lys Lys
 1 5 10 15

Lys

<210> 34
 <211> 11
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: synthetic
 peptide

<220>
 <223> this peptide may also encompass a deletion
 peptide of 6-9 Ala

<400> 34
 Ala Ala Ala Ala Ala Ala Ala Ala Ala Lys
 1 5 10

<210> 35
 <211> 17
 <212> PRT
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<220>
 <223> Description of Artificial Sequence: synthetic
 peptide

<220>
 <221> MOD_RES
 <222> (11)
 <223> Lys(Boc)-OCH-MMa-CO

<220>
 <221> MOD_RES
 <222> (12)..(17)
 <223> Glu(OtBu)

<400> 35
 Ala Ala Ala Ala Ala Ala Ala Ala Ala Lys Glu Glu Glu Glu Glu
 1 5 10 15

Glu

<210> 36
 <211> 6
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: synthetic
 peptide

<220>
 <221> MOD_RES
 <222> (1)..(6)
 <223> Glu(OtBu)

<400> 36
 Glu Glu Glu Glu Glu Glu
 1 5

<210> 37
 <211> 11
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: synthetic
 peptide

<400> 37
 Tyr Gly Gly Phe Leu Lys Lys Lys Lys Lys Lys
 1 5 10

<210> 38
 <211> 7
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: synthetic
 peptide

<220>
 <221> MOD_RES
 <222> (2)..(7)
 <223> Lys(Boc)

<400> 38
 Leu Lys Lys Lys Lys Lys Lys
 1 5

<210> 39
 <211> 8
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: synthetic peptide

<220>
 <221> MOD_RES
 <222> (3) .. (8)
 <223> Lys (Boc)

<400> 39
 Phe Leu Lys Lys Lys Lys Lys Lys
 1 5

<210> 40
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: synthetic peptide

<220>
 <221> MOD_RES
 <222> (4) .. (9)
 <223> Lys (tBoc)

<400> 40
 Gly Phe Leu Lys Lys Lys Lys Lys Lys
 1 5

<210> 41
 <211> 10
 <212> PRT
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<220>
 <223> Description of Artificial Sequence: synthetic peptide

<220>
 <221> MOD_RES
 <222> (5) .. (10)
 <223> Lys (tBoc)

<400> 41
 Gly Gly Phe Leu Lys Lys Lys Lys Lys Lys
 1 5 10

<210> 42
 <211> 11
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic peptide

<220>

<221> MOD_RES

<222> (6)..(11)

<223> Lys(tBoc)

<400> 42

Tyr Gly Gly Phe Leu Lys Lys Lys Lys Lys Lys
1 5 10

<210> 43

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: synthetic peptide

<400> 43

Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala
1 5 10